## 10/582413 IAP20Rec'dPGT/PTO 09 JUN 2006

## SEQUENCE LISTING

<110>	CHUGAI SEIYAKU KABUSHIKI KAISHA
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	2003-12-12
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rea re	a ma our map our ora tro bea bys of the our mg im the

30	35	40	45
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		ccg ggg gag aag ccc c Pro Gly Glu Lys Pro 70	
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Pro	Lys	Gln	Thr	Ser	Pro	Thr	Arg	Glu	Ala	Ser	Ala	Leu	Thr	Ala	Val	
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Ser Arg Ala Arg Cys Cys Pro Arg Asp Arg Tyr Pro Ile Trp Glu Asp

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Ser 350	Arg	Cys	His	Phe	Lys 355		Arg	Asn	Asp	Ser 360	Val	Ile	His		Leu 365	·
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Val	Glu	Val	Thr	Thr 370		Leu	Gly	Ala	Val 375	His	Ser	Tyr	Leu	Gly 380	Ser	
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Trp	Arg	Glu	Ile	Ser	Ser	Gly	His	Leu	Glu	Leu	Glu	Trp	Gln	His	Pro	
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Arg	Ala	Arg	Leu	Asn	Gly	Pro	Thr	Tyr	Gln	Gly	Pro	Trp	Ser	Ser	Trp	

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	_	_				ctt d Leu		Asp				•				16	633
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		Glu				ttg d Leu 580								_		1'	777
_	Tyr					cct Pro					Thr						825
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gcc aac cat tcc tac cta cca cta agc tat tgg cag cag cct tga 1918
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Thr Cys Phe Trp Asp Glu Glu Glu Ala Ala Pro Ser Gly Thr Tyr Gln 50 55 60

Leu Leu Tyr Ala Tyr Pro Gly Glu Lys Pro Arg Ala Cys Pro Leu Ser
70 75 80

Ser Gln Ser Val Pro Arg Phe Gly Thr Arg Tyr Val Cys Gln Phe Pro 85 90 95

Ala Gln Glu Val Arg Leu Phe Ser Pro Leu His Leu Trp Val Lys 100 105 110

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- Ser Val Gly Leu Pro Ala Pro Pro Ser Ile Ile Lys Ala Met Gly Gly
  130 135 140
- Ser Gln Pro Gly Glu Leu Gln Ile Ser Trp Glu Ala Pro Ala Pro Glu 145 150 155 160
- Ile Ser Asp Phe Leu Arg Tyr Glu Leu Arg Tyr Gly Pro Lys Asp Leu 165 170 175
- Lys Asn Ser Thr Gly Pro Thr Val Ile Gln Leu Ile Ala Thr Glu Thr
  180 185 190
- Cys Cys Pro Ala Leu Gln Arg Pro His Ser Ala Ser Ala Leu Asp Gln 195 200 205
- Ser Pro Cys Ala Gln Pro Thr Met Pro Trp Gln Asp Gly Pro Lys Gln 210 215 220
- Thr Ser Pro Thr Arg Glu Ala Ser Ala Leu Thr Ala Val Gly Gly Ser 225 230 235 240
- Cys Leu Ile Ser Gly Leu Gln Pro Gly Asn Ser Tyr Trp Leu Gln Leu 245 250 255
- Arg Ser Glu Pro Asp Gly Ile Ser Leu Gly Gly Ser Trp Gly Ser Trp 260 265 270
- Ser Leu Pro Val Thr Val Asp Leu Pro Gly Asp Ala Val Ala Ile Gly
  275 280 285
- Leu Gln Cys Phe Thr Leu Asp Leu Lys Asn Val Thr Cys Gln Trp Gln 290 295 300

- Gln Glu Asp His Ala Ser Ser Gln Gly Phe Phe Tyr His Ser Arg Ala 305 310 315 320
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- Glu Glu Lys Thr Asn Pro Gly Leu Gln Thr Pro Gln Phe Ser Arg Cys 340 345 350
- His Phe Lys Ser Arg Asn Asp Ser Val Ile His Ile Leu Val Glu Val 355 360 365
- Thr Thr Ala Leu Gly Ala Val His Ser Tyr Leu Gly Ser Pro Phe Trp 370 375 380
- Ile His Gln Ala Val Arg Leu Pro Thr Pro Asn Leu His Trp Arg Glu 385 390 395 400
- Ile Ser Ser Gly His Leu Glu Leu Glu Trp Gln His Pro Ser Ser Trp
  405 410 415
- Ala Ala Gln Glu Thr Cys Tyr Gln Leu Arg Tyr Thr Gly Glu Gly His
  420 425 430
- Gln Asp Trp Lys Val Leu Glu Pro Pro Leu Gly Ala Arg Gly Gly Thr
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  440
  445
- Leu Glu Leu Arg Pro Arg Ser Arg Tyr Arg Leu Gln Leu Arg Ala Arg
  450 455 460
- Leu Asn Gly Pro Thr Tyr Gln Gly Pro Trp Ser Ser Trp Ser Asp Pro
  465 470 475 480
  - Ala Arg Val Glu Thr Ala Thr Glu Thr Ala Trp Ile Ser Leu Val Thr
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Ala Leu Leu Val Leu Gly Leu Ser Ala Val Leu Gly Leu Leu Leu 500 505 510

Leu Arg Trp Gln Phe Pro Ala His Tyr Arg Arg Leu Arg His Ala Leu 515 520 525

Trp Pro Ser Leu Pro Asp Leu His Arg Val Leu Gly Gln Tyr Leu Arg 530 535 540

Asp Thr Ala Ala Leu Ser Pro Pro Lys Ala Thr Val Ser Asp Thr Cys 545 550 550 560

Glu Glu Val Glu Pro Ser Leu Leu Glu Ile Leu Pro Lys Ser Ser Glu 565 570 575

Arg Thr Pro Leu Pro Leu Cys Ser Ser Gln Ser Gln Met Asp Tyr Arg
580 585 590

Arg Leu Gln Pro Ser Cys Leu Gly Thr Met Pro Leu Ser Val Cys Pro 595 600 605

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Val Hi	s Ser Gln Val Gln Leu Gln Gln Ser Gly Pro Glu Leu Val Lys	
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cct gg	g gcc tca gtg aag att tcc tgc aag gct tct ggc tat gca ttc	144
Pro Gl	y Ala Ser Val Lys Ile Ser Cys Lys Ala Ser Gly Tyr Ala Phe	•
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Glu Trp Il	e Gly Arg Ile Tyr Pro	Gly Asp Gly Glu Thr Ile Tyr Asn	
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Gly Lys Ph	e Arg Val Lys Ala Thr	Leu Thr Ala Asp Lys Ser Ser Ser	
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aca gcc tad	c atg gat atc agc agc c	tg aca tct gag gac tct gcg gtc	336
Thr Ala Ty	r Met Asp Ile Ser Ser	Leu Thr Ser Glu Asp Ser Ala Val	
	100	105 110	
tac ttc tg	t gca aga ggc tat gat g	at tac tcg ttt gct tac tgg ggc	384
Tyr Phe Cy	s Ala Arg Gly Tyr Asp	Asp Tyr Ser Phe Ala Tyr Trp Gly	
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caa ggg act	ctg gtc act gtc tct gc	a.	411
Gln Gly Th	r Leu Val Thr Val Ser	Ala	
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	20	25 30	

Pro Gly Ala Ser Val Lys Ile Ser Cys Lys Ala Ser Gly Tyr Ala Phe 35 40 45

Thr Asn Ser Trp Met Asn Trp Val Lys Gln Arg Pro Gly Lys Gly Leu 50 55 60

Glu Trp Ile Gly Arg Ile Tyr Pro Gly Asp Gly Glu Thr Ile Tyr Asn 65 70 75 80

Thr Ala Tyr Met Asp Ile Ser Ser Leu Thr Ser Glu Asp Ser Ala Val
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	ct cct gga gag tca gta tcc atc tcc tgt agg tct agt aag agt hr Pro Gly Glu Ser Val Ser Ile Ser Cys Arg Ser Ser Lys Ser 35 40 45	144
Leu L	tg cat agt aat ggc aac act tac ttg tat tgg ttc ctg cag agg eu His Ser Asn Gly Asn Thr Tyr Leu Tyr Trp Phe Leu Gln Arg  55 60	192
_	gc cag tct cct caa ctc ctg ata tat cgg atg tcc aac ctt gcc ly Gln Ser Pro Gln Leu Leu Ile Tyr Arg Met Ser Asn Leu Ala 70 75 80	240
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	tg aga atc agt aga gtg gag gct gag gat gtg ggt gtt tat tac eu Arg Ile Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr 100 105 110	336
	tg caa cat ata gaa tat cct ttt acg ttc gga tcg ggg acc aag let Gln His Ile Glu Tyr Pro Phe Thr Phe Gly Ser Gly Thr Lys 115 120 125	384
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Val Thr Pro Gly Glu Ser Val Ser Ile Ser Cys Arg Ser Ser Lys Ser 35 40 45

Leu Leu His Ser Asn Gly Asn Thr Tyr Leu Tyr Trp Phe Leu Gln Arg 50 55 60

Pro Gly Gln Ser Pro Gln Leu Leu Ile Tyr Arg Met Ser Asn Leu Ala
65 70 75 80

Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Ala Phe 85 90 95

Thr Leu Arg Ile Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr 100 105 110

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Ser Val Lys Ile Ser Cys Lys Ala Ser Gly Tyr Ala Phe Ser Ser Ser 20 25 30

Trp Met Asn Trp Val Lys Gln Arg Pro Gly Lys Gly Leu Glu Trp Ile 35 40 45

Gly Arg Ile Tyr Pro Gly Asp Gly Glu Thr Asn Asn Asn Gly Lys Phe
50 55 60

Lys Gly Lys Ala Thr Leu Thr Ala Asp Lys Ser Ser Thr Thr Ala Tyr
65 75 80

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Trp		Asn 35			Lys	Gln	Arġ 40	Pro	Gly	Lys	Gly	Leu 45	Glu	Trp	Ile
Gly	Arg 50	Ile	Tyr	Pro	Gly	Asp 55	Gly	Glu	Thr	Ile	Tyr 60	Asn	Gly	Lys	Phe
Arg 65	Val	Lys	Ala	Thr	Leu 70	Thr	Ala	Asp	Lys	Ser 75	Ser	Ser	Thr	Ala	Tyr 80
Met	Asp	Ile	Ser	Ser 85	Leu	Thr	Ser	Glu	Asp 90	Ser	Ala	Val	Tyr	Phe 95	Cys
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Leu	Val	Thr 115	Val										-		
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Ser	Val	Lys	Leu 20	Ser	Cys	Lys	Ala	Ser 25	Gly	Tyr	Thr	Phe	Thr	Asp	Tyr

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35 40 45

Gly Arg Ile His Pro Tyr Asp Ser Glu Thr His Tyr Asn Gln Lys Phe
50 55 60

Lys Asn Lys Ala Thr Leu Thr Val Asp Lys Ser Ser Ser Thr Ala Tyr 65 70 75 80

Ile Gln Leu Ser Ser Leu Thr Ser Glu Asp Ser Ala Val Tyr Tyr Cys
85 90 95

Ala Ser Gly Gly Trp Phe Ala Ser Trp Gly Gln Gly Thr Leu Val Thr
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Tyr Ala Trp Ser Trp Ile Arg Gln Leu Pro Gly Asn Lys Leu Glu Trp 35 40 45

Met Gly Tyr Ile Thr Tyr Ser Gly Tyr Ser Ile Tyr Asn Pro Ser Leu 50 55 60

Lys Ser Arg Ile Ser Ile Ser Arg Asp Thr Ser Lys Asn Gln Leu Phe

 65
 70
 75
 80

Leu Gln Leu Asn Ser Val Thr Thr Glu Asp Thr Ala Thr Tyr Tyr Cys
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Val Gly Gly Tyr Asp Asn Met Asp Tyr Trp Gly Gln Gly Thr Ser Val

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Thr Val Ser Ser 115

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Glu Ser Val Ser Ile Ser Cys Arg Ser Ser Lys Ser Leu Leu His Ser 20 25 30

Asn Gly Asn Thr Tyr Leu Tyr Trp Phe Leu Gln Arg Pro Gly Gln Ser 35 40 45

Pro Gln Leu Leu Ile Tyr Arg Met Ser Asn Leu Ala Ser Gly Val Pro 50 55 60

Asp Arg Phe Ser Gly Ser Gly Ser Gly Ala Ala Phe Thr Leu Arg Ile
65 70 75 80

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Asp Ile Val Met Thr Gln Ala Ala Pro Ser Val Pro Val Thr Pro Gly
1 1 15

Glu Ser Val Ser Ile Ser Cys Arg Ser Ser Lys Ser Leu Leu His Ser 20 25 30

Asn Gly Asn Thr Tyr Leu Tyr Trp Phe Leu Gln Arg Pro Gly Gln Ser 35 40 45

Pro Gln Leu Leu Ile Tyr Arg Met Ser Asn Leu Ala Ser Gly Val Pro 50 55 60

Asp Arg Phe Ser Gly Ser Gly Ser Gly Ala Ala Phe Thr Leu Arg Ile
65 70 75 80

Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Met Gln His 85 90 95

Leu Glu Tyr Pro Tyr Thr Phe Gly Ser Gly Thr Lys Leu Glu Ile Lys
100 105 110

<210> 26

<211> 112

<212> PRT

<213> Mus musculus

<400> 26

Asp Ile Val Met Thr Gln Ala Ala Pro Ser Ile Pro Val Thr Pro Gly

1	5	10	15
Glu Ser Val Ser 20	Ile Ser Cys Arg	Ser Ser Lys Ser 1	Leu Leu His Ser 30
Asn Gly Asn Thr	Tyr Leu Tyr Trp	Phe Leu Gln Arg	Pro Gly Gln Ser 45
Pro Gln Leu Leu 50	Ile Tyr Arg Met	Ser Asn Leu Ala 60	Ser Gly Val Pro
Asp Arg Phe Ser 65	Gly Ser Gly Ser	Gly Thr Ala Phe	Thr Leu Arg Ile 80
Ser Arg Val Glu	Ala Glu Asp Val	Gly Val Tyr Tyr 90	Cys Met Gln His 95
Ile Glu Tyr Pro 100	Phe Thr Phe Gly	Ser Gly Thr Lys	Leu Glu Ile Lys 110
<210> 27 <211> 112 <212> PRT <213> Mus musci	ulus		
<400> 27 Asp Ile Val Met 1	Thr Gln Ala Ala 5	Pro Ser Val Pro 10	Val Thr Pro Gly 15
Glu Ser Val Ser 20	Ile Ser Cys Arg	Ser Ser Lys Ser 25	Leu Leu Tyr Ser 30
Asn Gly Asn Thr	Tyr Leu Tyr Try 40	Phe Leu Gln Arg	Pro Gly Gln Ser

Pro Gln Leu Leu Ile Tyr Arg Met Ser Asn Leu Ala Ser Gly Val Pro

50 55 60

Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Ala Phe Thr Leu Thr Ile

70

75

80

Ser Ser Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Met Gln His
85 90 95

Leu Glu Tyr Pro Tyr Thr Phe Gly Ser Gly Thr Lys Leu Glu Ile Lys
100 105 110

<210> 28

<211> 108

<212> PRT

<213> Mus musculus

<400> 28

Gln Ile Val Leu Thr Gln Ser Pro Ala Ile Met Ser Ala Ser Pro Gly
1 10 15

His Leu Tyr Trp Tyr Gln Gln Lys Pro Gly Ser Ser Pro Lys Leu Trp
35 40 45

Ile Tyr Ser Thr Ser Asn Leu Ala Ser Gly Val Pro Ala Arg Phe Ser 50 55 60

Gly Ser Gly Ser Gly Thr Ser Tyr Ser Leu Thr Ile Ser Asn Met Glu
65 70 75 80

Thr Glu Asp Ala Ala Ser Tyr Phe Cys His Gln Trp Ser Ser Tyr Pro 85 90 95

Trp Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys